

0908551	Fluid Power Control	(3 Cr. Hrs.)
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Prereq. (0908463)

Servo drives in hydraulic systems: analysis and design. Basic compressible flow equations. An overview of the Pneumatic systems analysis and design. Fundamentals of Pneumatic control: circuit diagram, sequence control, single and double acting cylinders related controls. Fluidics (logic in pneumatic systems). Pneumatic systems traditional sensors. Design of cascaded systems. Applications: Clamping fixture on a drilling apparatus, sliding door, transporting of section material, drilling and reaming of hinged parts, and elevator control. Design, simulation, and implementation in laboratory.